

USSN: 10/773,176

Art unit: 1712

Examiner: Daniel S. Metzmaier

1. (Currently amended) A mutual solvent system for use in acidizing and cleaning up an oil or gas well, the mutual solvent system comprising a solution of:

an alcohol that is water soluble present in the amount of at least 5% by weight of the mutual solvent system;

an ester that is water and oil soluble present in the amount of at least 5% by weight of the mutual solvent system;

an aqueous acid comprising water and acid, the aqueous acid being present in an amount at least 5% by weight of the mutual solvent system; and

a solvent that is at least one of a ketone that is water and oil soluble and a cyclic ether that is water and oil soluble

2-9. Cancelled.

10. (Previously presented) The mutual solvent system of claim 1 in which the ester is a C₂ – C₁₀ ester.

11-13. Cancelled.

14. (Previously presented) A solvent system for use in acidizing and cleaning up an oil or gas well, the solvent system comprising:

an alcohol that is water soluble present in the amount of at least 5% by weight of the solvent system;

an ester that is water and oil soluble present in the amount of at least 5% by weight of the solvent system;

an aqueous acid comprising water and acid, the aqueous acid being present in an amount at least 5% by weight of the solvent system; and

tetrahydrofuran present in the amount of between 10% and 50% by weight of the solvent system.

15. (Cancelled)

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16. (Previously presented) The solvent system of claim 14 in which the aqueous acid is present in the amount of between 10% and 50% by weight of the solvent system.
17. (Previously presented) The solvent system of claim 16 in which the acid is hydrochloric acid.
- 18-29. Cancelled.
30. (Previously presented) The mutual solvent system of claim 1 in which the solvent is a ketone.
31. (Previously presented) The mutual solvent system of claim 1 in which the solvent comprises a C₃ – C₁₀ ketone.
32. (Previously presented) The mutual solvent system of claim 31 in which the solvent comprises methyl ethyl ketone.
33. (Previously presented) The mutual solvent system of claim 32 in which the methyl ethyl ketone is present in the amount of between 10% and 50% by weight of the mutual solvent system.
34. (Previously presented) The mutual solvent system of claim 1 in which a ketone is present in the amount of between 10% and 50% by weight of the mutual solvent system.
35. (Previously presented) The mutual solvent system of claim 1 in which the aqueous acid is present in the amount of between 10% and 50% by weight of the mutual solvent system.
36. (Currently amended) The mutual solvent system of claim ~~32~~1 in which the acid is hydrochloric acid.